Nutrient Science Advisors

June 13, 2007, 240 Bessey Hall, Iowa State University

Agenda

1- Understand DNR's designated uses and criteria – Bill Ehm or John Olson – (10:00-10:30)

2- Explore EPA perspectives on nutrient standards – Ann Jacobs/Gary Welker, EPA Region VII – (10:30-11:00)

3- Develop recommended nutrient water-quality criteria for Recreational Use (Class A) lakes. It may not be feasible to complete this task but we can at least launch a trajectory – (11:00-2:00)

A. Brainstorm about and identify direct and indirect variables critical to protecting the use of Class A lakes. What are they? What are the effects? Can we document these?

B. Identify existing or needed relationships of N and P with each variable identified in "A". These need to be quanitative relationships of intensities (e.g., concentrations) or risks of unacceptable conditions.

C. Evaluate, for each variable identified in "A", how we can quantify the concentration, frequency and duration (criterion components) of N and P that correlate to responses that impair the water use.

D. Document the reasoning for recommending each criterion with literature references, graphs and unpublished data analysis.

Working Lunch – 12:00

4- Develop a system for improving criteria as more and different data become available (2:00-2:30).

5- Discuss the aquatic life communities/assemblages that should be protected in Iowa's lakes (Class B(LW)). This is the first step in the process listed under agenda item 3 to establish aquatic life designation(s) and criteria (2:30-3:30).

6- Assignments/next meeting(s)/blog.